PATENT COOPERATION TREATY

PCT

REC'D 23 DEC 2004

INTERNATIONAL PRELIMINARY EXAMINATION REPORT PC

(PCT Article 36 and Rule 70)

		_	ent's file reference	FOR FURTHER A	CTION	See Notification	on of Transmittal of International camination Report (Form PCT/IPEA/416)	
PCT/NL 03/00533 18				International filing date (day/month/year)			Priority date (day/month/year)	
				18.07.2003			05.09.2002	
	nationa D30/2		nt Classification (IPC) or	both national classification	and IPC			
Appli SMC		OUP	B.V. et al.					
1.	This Auth	inten ority	national preliminary ex and is transmitted to th	amination report has be ne applicant according to	en prepar Article 36	ed by this Inte 3.	ernational Preliminary Examining	
2.	2. This REPORT consists of a total of 6 sheets, including this cover sheet.							
This report is also accompanied by ANNEXES, i.e. sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).					∍ y			
	The		nexes consist of a tota					
3.	This	repo	rt contains indications	relating to the following I	items:			
		×	Basis of the opinion	o o				
	II		Priority					
	111			of oninion with regard to	novelty in	Wantivo eton	and industrial applicability	
	IV	⊠			noverty, in	iveritive step	and industrial applicability	
IV ☒ Lack of unity of invention V ☒ Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, Inventive step or industrial applications and explanations supporting such statement					nventive step or industrial applicability;			
	VI		Certain documents	eited				
	VII		Certain defects in th	e international applicatio	n			
	VIII		Certain observations	on the international app	olication		•	
Date	of sub	missi	on of the demand		Date of	completion of t	his report	=
05.0	05.04.2004			21.12.	2004			
Name and mailing address of the international				onal	Authoriz	ed Officer		
prefii	minary	Eu D- Te	Īning authority: ropean Patent Office 80298 Munich I. +49 89 2399 - 0 Tx: 52 x: +49 89 2399 - 4465	3656 epmu d	Piolat,		The state of the s	· Quantal accounty
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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/NL 03/00533

 Basis of the re 	eport
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Description, Pages

1. With regard to the **elements** of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)):

	1-15	5	as originally filed			
	Clai	ms, Numbers				
	1-15	5	filed with telefax on 26.11.2004			
	Dra	wings, Sheets				
	1/4-	4/4	as originally filed			
2.	With lang	With regard to the language, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.				
	The	se elements were ava	ulable or furnished to this Authority in the following language: , which is:			
		the language of a trai	nslation furnished for the purposes of the international search (under Rule 23.1(b)).			
			cation of the international application (under Rule 48.3(b)).			
		the language of a train Rule 55.2 and/or 55.3	nslation furnished for the purposes of international preliminary examination (under s).			
3.	With inte	n regard to any nucle o rnational preliminary e	otide and/or amino acid sequence disclosed in the international application, the examination was carried out on the basis of the sequence listing:			
•		contained in the inter	national application in written form.			
		filed together with the	international application in computer readable form.			
	☐ furnished subsequently to this Authority in written form.					
☐ furnished subsequently to this Authority in computer readable form.			tly to this Authority in computer readable form.			
	The statement that the subsequently furnished written sequence listing does not go beyond the disclosu in the international application as filed has been furnished.					
		The statement that the listing has been furnish	ne information recorded in computer readable form is identical to the written sequence shed.			
4.	The	amendments have re	sulted in the cancellation of:			
		the description,	pages:			
		the claims,	Nos.:			
		the drawings,	sheets:			

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/NL 03/00533

5. 🗆		This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed (Rule 70.2(c)).							
		(Any replacement sheet contreport.)	taining	such amend	ments must be referred to under item 1 and annexed to this				
6.	Add	Additional observations, if necessary:							
IV	. Lac	ek of unity of invention							
		esponse to the invitation to restrict or pay additional fees, the applicant has:							
	□ restricted the claims.				iar icos, the applicant has:				
		neither restricted nor paid add		l fees					
2.		This Authority found that the requirement of unity of invention is not complied with and chose, according to Rule 68.1, not to invite the applicant to restrict or pay additional fees.							
3.	This	his Authority considers that the requirement of unity of invention in accordance with Rules 13.1, 13.2 and 13.3							
	\boxtimes	complied with.							
		not complied with for the follo	wing re	easons:					
 Consequently, the following parts of the international application were the subject of international prelir examination in establishing this report: 					application were the subject of international preliminary				
	\boxtimes	all parts.							
		the parts relating to claims No	os						
V.	Rea citat	easoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability;							
1.		atement							
		elty (N)	Yes: No:	Claims Claims	1-15				
		ntive step (IS)	Yes: No:	Claims Claims	1-15				
	Indu	strial applicability (IA)	Yes: No:	Claims Claims	1-15				
2.	Citat	ions and explanations							

see separate sheet

Re Item V

Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1 Reference is made to the following documents:

D1: GB-A-2117736 D2: US-A-6032818 D3: US-A-5788121 D4: US-A-5988422

The present application does not meet the criteria of Article 33(1) PCT, because the subject-matter of independent claim 1 does not involve an inventive step in the sense of Article 33(3) PCT.

The document D2 is regarded as being the closest prior art to the subject-matter of claim 1 and discloses (see column 3, line15 - column 4, line 19; column 5, lines 22-64; fig. 1-3, 9a-9f) a combination comprising a container (11) and an empty bag (1) that can be unfolded from a flat, empty state into a filled final state; wherein the container has a walled enclosure that defines a container chamber, which walled enclosure comprises a base (29) and a peripheral wall (28) that is upright in the height direction from the base; wherein the bag comprises a first (2), a second (3), and a third (35) sheet for forming, respectively a first, second and third bag wall; wherein the first sheet is joined to the second sheet via the third sheet; wherein, in the flat empty state, the third sheet is folded along a fold line (40); wherein, in the flat empty state, the fold line of the third sheet is between the first and the second sheet; wherein the first sheet of the bag is provided with a first opening (5) for emptying the bag, the first opening being connected to the peripheral wall; wherein the foldable bag in the filled final state has dimensions that essentially correspond to those of the container chamber; whereby the first sheet of the bag is provided with a second opening (6) for filling the bag; the first opening and second opening are fixed to the walled enclosure; the first opening is provided at the base of the container and the second opening is provided at the top of the peripheral wall such that, between the first opening and second opening, the bag is in contact with the peripheral wall over essentially the entire height of the peripheral wall as well that, with the container upright and from the flat, empty state, the bag unfolds from the first opening along the base and from the base into the top of the container chamber.

The subject-matter of claim 1 therefore differs from this known combination in that the bag comprises a fourth sheet for forming a fourth bag wall; wherein the first sheet is joined to the second sheet via said fourth sheet; wherein, in the flat empty state, the fourth sheet is folded along a fold line; wherein, in the flat empty state, the fold line of the fourth sheet is between the first and the second sheet facing the fold line of the third sheet; and wherein said fold lines extend essentially in the height direction of the container.

The problem to be solved by the present invention may therefore be regarded as to provide a combination which is easy to fill for a very high degree, avoiding loss of filling capacity because of folded bag parts.

However, the solution proposed in claim 1 consisting in a bag formed with a fourth sheet, whereby the fold lines of the third and fourth sheets extend essentially in the height direction of the container, has already been employed for the same purpose in similar combination, see document D1 (page 1, line 57 - page 3, line 13; page 6, lines 11-34; fig. 1-12) as well as document D4 (see column 6, lines 3-67; fig. 1-5). It would be obvious to the person skilled in the art, namely when the same result is to be achieved, to apply these features with corresponding effect to a combination according to document D2, thereby arriving at a combination according to claim 1.

The solution proposed in claim 1 of the present application can therefore not be considered as involving an inventive step.

- The same reasoning applies to the subject-matter of independent claim 14, which is not considering as involving an inventive step either (Article 33(3) PCT).
- The dependent claims 2-13 and 15 do not contain any features which; in combination with the features of any claim to which they refer, meet the requirements of the PCT in respect of inventive step, the reasons being as follows:

The additional features defined in these claims are either known from the available prior art or they are considered as being within the scope of the customary practice followed by persons skilled in the art, especially as the advantages thus achieved can be readily contemplated in advance see for instance documents D2 for claims 2, 7 and 15; D3 (see fig. 1-4) or D4 for claims 3-6; D1 for claims 8-13.

- 5 In order to be complete the following remarks are also made:
- 5.1 When drafting claim 4, whose subject-matter corresponds to the subject-matter of former claim 4, some features have been deleted, which extends the scope of that claim beyond the content of the application as filed, contrary to Article 19(2) PCT.
- 5.2 The last feature of claim 1 "with the container upright and from the flat, empty state, the bag unfolds from the first opening along the base and from the base into the top of the container" relate to a method of using the combination rather than clearly defining the combination in terms of its technical features. The intended limitations are therefore not clear from this claim, contrary to the requirements of Article 6 PCT.
- 5.3 The term "optionally" used in the expression "and optionally fourth sheet" in claim 10 should have been deleted since said fourth sheet is part of the subject-matter defined in claim 1 (Article 6 PCT).
- 5.4 Claim 14 refers to the first and second fixing, which wordings do not appear in claim 1, thereby leaving the reader in doubt as to the technical features to which these expressions refer (Article 6 PCT).
- 5.5 To meet the requirements of Rule 5.1(a)(ii) PCT, the documents D1 and D2 should have been identified in the description and the relevant background art disclosed therein should have been briefly discussed.
 - Additionally, the reference to the document DE-U 931620 in the description on page 2 seems to be erroneous.
- 5.6 The description is not in conformity with the amended claims as required by Rule 5.1(a)(iii) PCT.

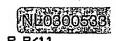
New claims

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- Combination comprising a container (50, 90) and an empty bag (1, 100) that can 1. be unfolded from a flat, empty state into a filled final state;
- wherein the container (5, 90) has a walled enclosure (91, 92, 93) that defines a 5 container chamber (94), which walled enclosure comprises a base (91) and a peripheral wall (92) that is upright in the height direction from the base (91); wherein the bag (1, 100) comprises a first (10), a second (20), a third (30) and a fourth (40) sheet for forming, respectively, a first, second third and fourth bag wall;
- wherein the first sheet (10) is joined to the second sheet (20) via the third (30) and the 10 fourth (40) sheet;
 - wherein, in the flat empty state, the third (30) and the fourth (40) sheet are each folded along a fold line (31, 41);
- wherein, in the flat, empty state, the fold line (31) of the third sheet (30) and the fold line (41) of the fourth sheet are between the first (10) and the second (20) sheet facing 15 one another:
 - wherein the fold lines (31, 41) extend essentially in the height direction of the container:
- wherein the first sheet (10) of the bag (1, 100) is provided with a first opening (16) for emptying the bag, the first opening (6) being connected to the peripheral wall (92); 20 wherein the foldable bag in the filled final state has dimensions that essentially correspond to those of the container chamber (94); characterized
 - in that the first sheet (10) of the bag (1, 100) is provided with a second opening (15, 105) for filling the bag,
- in that the first opening (16) and second opening (15, 105) are fixed to the walled enclosure (91, 92, 93);
 - in that the first opening (16) is provided at the base of the container (50, 90) and the second opening (15, 105) is provided at the top of the peripheral wall (92) such that,
- between the first opening (16) and second opening (15, 105), the bag (1, 100) is in 30 contact with the peripheral wall (92) over essentially the entire height of the peripheral wall (92) as well that, with the container upright and from the flat, empty state, the bag (1, 100) unfolds from the first opening (16) along the base and from the base into the



top of the container chamber (94).

 Combination according to Claim 1, wherein the container chamber (94) is essentially block-shaped or cylindrical.

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wherein the first (10) and second (20) sheet each have two mutually parallel side edges (12, 14; 22, 24) running in the height direction; wherein, on the one hand, the first sheet (10) is joined together with the third (30) and fourth (40) sheet and, on the other hand, the second sheet (20) is joined together with the third (30) and fourth (40) sheet at the tops and bottoms thereof along an oblique seal (61), viewed with respect to the side edges, such that in the completely filled state the seals (61) essentially determine the diagonals of the bottom surface and the top surface of the bag (1, 100).

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- Combination according to Claim 3,
 wherein a top rib/axis (63) runs between the outward-pointing ends of the top
 oblique seals (61) of the first sheet (10); and
 wherein a bottom rib/axis (64) runs between the outward-pointing ends of the
 bottom oblique seals (61) of the first sheet (10).
 - 5. Combination according to Claim 4, wherein the distance from, on the one hand, the second opening (15, 105) to, on the other hand, the top rib/axis (63) is at most 25% of the depth of the container chamber (94), viewed horizontally and transversely to the top rib/axis (63), wherein said distance is preferably at most 15%, such as at most 10%, of said depth.
- 6. Combination according to one of Claims 4 5,

 wherein the distance from, on the one hand, the first opening (16) to, on the other hand, the bottom rib/axis (64) is at most 25% of the depth of the container chamber (94), viewed horizontally and transversely to the bottom rib/axis (64), wherein said distance is preferably at most 15%, such as at most 10%, of said

depth.

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- 7. Combination according to one of the preceding claims, wherein the walled enclosure (91, 92, 93) of the container (5, 90) has a ceiling (93) that delimits the container chamber (94) from above and wherein a portion of the bag (1, 100) facing upwards in the filled final state is provided with the second opening (15, 105).
- 8. Combination according to one of the preceding claims, wherein the fold line (31) of the third sheet (30) in the initial state extends underneath the first opening (16) to form a channel (17) between the first and second sheet (10, 20) past the first opening (16).
- 9. Combination according to claim 8, wherein the fold line (41) of the fourth sheet (40) in the initial state extends underneath the first opening (16) to form a channel (17) between the first and second sheet (10, 20) past the first opening (16).
- 10. Combination according to claim 8 or 9, characterised in that the first opening (16) has been made close to the longitudinal centre line of the first sheet (10), wherein the fold lines in the third and optionally fourth sheet (30, 40) in the initial state extend essentially parallel to and close to said longitudinal centre line.
- 11. Combination according to claim 8 or 9, characterised in that the distance between the fold line in, respectively, the third and fourth sheet (30, 40) in the initial state is less than 90%, preferably less than 80%, of the diameter of the opening (15).
 - 12. Combination according to one of claims 8-11, wherein, viewed transversely to the fold line (31) of the third sheet (30), the greatest distance to the periphery of the opening of the first opening (16) is at least 5%, preferably at least 15%, such as at least 20%, of the maximum passage width of said opening, viewed transversely to the fold line (31) of the third sheet (30).
 - 13. Combination according to one of claims 8-12, wherein, viewed transversely to



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the fold line (41) of the fourth sheet (40), the greatest distance to the periphery of the first opening (16) is at least 5%, preferably at least 15%, such as at least 20%, of the maximum passage width of said opening, viewed transversely to the fold line (44) of the fourth sheet (40),

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14. Method for the use of a combination according to one of the preceding claims, wherein the flat empty bag is first fixed by the first and second fixing against the walled enclosure of the container chamber and only then is the bag filled with a filling via the second opening (15, 105).

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15. Method for the use of a combination according to one of claims 1-13 or method according to claim 14, wherein the bag is emptied, or at least the final portion of the bag is emptied, via the first opening (16).